

VEHICLE OCCUPANT SENSING SYSTEM HAVING CIRCUIT CARRIER TRAY

ABSTRACT OF THE DISCLOSURE

A vehicle occupant sensing system for detecting a condition of a vehicle seat assembly having a lower seat cushion supported by a seat pan. The system has a tray with a plurality of pedestals disposed between the seat pan and the cushion. The system also has a plurality of sensor assemblies, each defining a force responsive axis and disposed between the lower seat cushion and tray. The pedestals support some of the sensor assemblies such that the force responsive axes of the sensor assemblies are substantially aligned with the occupant's weight load. Furthermore, the system may be employed in a seat assembly to detect a condition thereof. The tray allows addition of safety features in the vehicle seat assembly such that the seat more effectively retains the occupant, and yet the tray positions the sensor assemblies to be responsively aligned with the occupant's weight load despite these additional features.